Author Index

Ari, S., see Gözükiirmizi, N.
Arts, G. H. P. and Den Hartog, C.
Phytogeographical aspects of the West
European soft-water macrophyte flora, 369
Auger, J. A., see Rayburn A. L.

Babu, A. M., John, P. and Nair, G. M. Ultrastructure of gum-resin secreting cells in the pith of *Ailanthus excelsa* Roxb., 389 Bachmann, K., see Vlot, E. C.

Barkman, J. J. Ecological differences between Calluna- and Empetrum-dominated dry heath communities in Drenthe, The Netherlands, 75

Bednara, J., Willemse, M. T. M. and Van Lammeren, A. A. M. Organization of the actin cytoskeleton during megasporogenesis in *Gasteria verrucosa* visualized with fluorescent-labelled phalloidin, 43

Borst-Pauwels, G. W. F. H., see Jongbloed, R. H.

Borst-Pauwels, G. W. F. H., see Jongbloed, R. H.

Bouman, H., see De Klerk, G.-J. ter Brugge, J., see De Klerk, G.-J.

Custers, J. M. B., Zijlstra, S. and Jansen, J. Somaclonal variation in cucumber (*Cucumis sativus* L.) plants regenerated via embryogenesis, 153

De Klerk, G.-J. How to measure somaclonal variation, 129

De Klerk, G.-J., ter Brugge, J. and Bouman, H. An assay to measure the extent of variation in micropropagated plants of Begonia × hiemalis, 145

Den Hartog, C. see Arts, G. H. P.
Derksen, J., see Emons, A. M. C.
Derksen, J., Wilms, F. H. A. and Pierson,
E. S. The plant cytoskeleton: its significance in plant development, 1

Emons, A. M. C., Wolters-Arts, A. M. C., Traas, J. A. and Derksen, J. The effect of colchicine on microtubules and microfibrils in root hairs, 19 Ernst, W. H. O., see Baalen, J.

Franssen-Verheijen, M. A. W. and Willemse, M. T. M. The ovule of *Gasteria verrucosa* at receptivity of the stigma: an ultrastructural study, 53 Fransz, P. F., Kieft, H. and Schel, J. H. N. Cell cycle changes during callus initiation from cultured maize embryos. An autoradiographic study, 65

Gözükirmizi, N., Ari, S., Oralder, G., Okatan, Y. and Ünsal, N. Callus induction, plant regeneration and chromosomal variations in barley, 379

't Hart, H. Sedum ursi (Crassulaceae), a new species from Sandras Dagi (Turkey), 203 Havill, D. C., see Ingrouille, M. J.

Ingrouille, M. J., Pearson, J. and Havill, D. C. The pattern of morphological variation in the Salicornia dolichostachya Moss group from different sites in southern England, 263

Jansen, J., see Custers, J. M. B.
Janssen, D. W., see Van Baalen, J.
John, P., see Babu, A. M.
Jongbloed, R. H. and Borst-Pauwels,
G. W. F. H. Differential response of some ectomycorrhizal fungi to cadmium in vitro,
241

Jongbloed, R. H. and Borst-Pauwels, G. W. F. H. Effects of ammonium and pH on growth of some etomycorrhizal fungi in vitro, 349

Kengen, H. M. P., see Wilms, F. H. A. Kieft, H., see Fransz, P. F. Kuiper, P. J. C. Analysis of phenotypic responses of plants to changes in the environment in terms of stress and adaptation, 217

Kuiters, A. T. Role of phenolic substances from decomposing forest litter in plant-soil interactions. 329

Nair, G. M., see Babu, A. M. Nelissen, H. J. M., see Van Baalen, J. Nell, H. W., see Prins, A. H.

Okatan, Y., see Gözükirmizi, N. Oraler, G., see Gözükirmizi, N. den Outer, R. W., see Van Veenendaal, W. L. H.

Pacini, E. Mercurialis annua L. (Euphorbiaceae) seed interactions with the ant Messor structor (Latr.), hymenoptera: Formicidae, 253 Pearson, J., see Ingrouille, M. J. Pierson, E. S., see Derksen, J. Pijnacker, L. P. and Sree Ramulu, K. Somaclonal variation in potato: a

karyotypic evaluation, 163

Prins, A. H. and Nell, H. W. The impact of herbivory on plant numbers in all life stages of Cynoglossum officinale L. and Senecio

jacobaea L., 275

Rayburn, A. L. and Auger, J. A. Nuclear DNA content variation in the ancient indigenous races of Mexican maize, 197

Retallack, B. and Willison, J. H. M. Common primordia and the double-headed inflorescence in 'Renova' red clover (*Trifolium pratense* L.), a papilionoid legume, 247

Schel, J. H. N., see Fransz, P. F.

Segaar, P. J. The flagellar apparatus and temporary centriole-associated microtubule systems at the interphase-mitosis transition in the green alga *Gloeomonas kupfferi*: an example of the spatio-temporal flexibility of microtubule-organizing centres, 29

Senden, M. H. M. N. and Wolterbeek, H. Th. Effect of citric acid on the transport of cadmium through xylem vessels of excised tomato stem-leaf systems, 297

Sree Ramulu, K., see Pijnacker, L. P.
Stegenga, H. The genus Compsothamnionella
Itono (Ceramiaceae, Rhodophyta) on the
South African coast, 93

Sykes, M. T. and Wilson, J. B. An experimental investigation into the response of New Zealand sand dune species to different depths of burial by sand, 171

Traas, J. A., see Emons, A. M. C.

Ünsal, N., see Gözükirmizi, N.

Van Andel, J., see Van Baalen, J. Van Baalen, J., Ernst, W. H. O., Van Andel, J., Janssen, D. W. and Nelissen, H. J. M. Reproductive allocation in plants of Scrophularia nodosa grown at various levels of irradiance and soil fertility, 183

Van Lammeren, A. A. M., see Bednara, J.
 Van Veenendaal, W. L. H. and den Outer,
 R. W. Distribution and development of the non-articulated branched laticifers of Morus nigra L. (Moraceae), 285

Vlot, E. C. and Bachmann, K. Genetics of the proportion of peripheral yellow achenes on the capitula of *Microseris douglasii* strain

D37 (Asteraceae, Lactuceae), 229

Wijsman, H. J. W. On the inter-relationships of certain species of Petunia VI. New names for the species of Calibrachoa formerly included into Petunia (Solanaceae), 101

Willemse, M. T. M., see Bednara, J.
Willemse, M. T. M., see Franssen-Verheijen,
M. A. W.

Willison, J. H. M., see Retallack, B. Willison, J. H. M., see Zhang, M. I. N.

Wilms, F. H. A. and Kengen, H. M. P. Simultaneous visualization of cytoskeletal elements and cellulose microfibrils in cortex cells of tobacco explants, 49

Wilms, F. H. A., see Derksen, J. Wilson, J. B., see Sykes, M. T. Wolterbeek, H. Th., see Senden, M. H. M. N. Wolters-Arts, A. M. C., see Emons, A. M. C.

Zhang, M. I. N. and Willison, J. H. M. Electrical conductance of red onion scale tissue during freeze-thaw injury, 359 Zijlstra, S., see Custers, J. M. B.

Key-word Index

acidification, 349
actin, 43
adaptation, 197
Ailanthus excelsa, 389
Allium cepa L., 359
altitude, 197
ammonium, 349
Ammophila arenaria, 171
ants, 253
apoplastic electrolytes, 359
Asteraceae, 229
astral microtubules, 29
atlantic, 369
autoradiography, 65

basal body, 29 Begonia hiemalis, 145 boreal, 369

cadmium, 241, 297 Calluna vulgais, 75 caruncle, 253 cation adsorption, 297 cell cycle, 65 cell differentiation, 1 cellulose microfibrils, 49 centriole, 29 Ceramiaceae, 93 chromosomal variation, 379 chromosome numbers, 203 chromosome variation, 163 citric acid, 297 colchicine, 19 Compsothamnionella, 93 corn, 197 Crassulaceae, 203 cucumber, 153 Cucumis sativus L., 153 Cynoglossum officinale, 275 cytoskeleton, 1, 43, 49

developmental genetics, 229 differentiation gradient, 229 dunes, 171

ecology, 369 ectomycorrhizai fungi, 241, 349 embryogenesis, 65 Empetrum nigrum, 75 epithelial cell, 389 Equisetum hyemale, 19

flagellar apparatus, 29 forest litter, 329 freeze-thaw injury, 359 Gasteria, 53 genetic instability, 129 genome size, 197 Gloeomonas, 29 growth, 241, 349 gum-resin, 389

herbivory, 275 heterocarpy, 229 Hordeum vulgare, 379

in-vitro culture, 65, 163
inflorescence, 229
interphase-mitosis transition, 29
irradiation, 183
Laccaria bicolor, 241, 349
Lactarius hepaticus, 241, 349
Lactarius rufus, 241, 349
Lactuceae, 229
lateral escape, 297
laticifer, 285
life cycle, 217
life stages, 275

megasporogenesis, 43 membrane rupture, 359 Mercurialis annua, 253 Messor structor, 253 microclimate, 75 microfibrils, 19 micropropagation, 129, 145 Microseris, 229 microtubules, 19 mineral nutrition, 183 monocarpy, 217 morphogenesis, 1 morphological, 171 Morus nigra, 285 MTOC, 29 mycoflora, 75 mycorrhizal fungi, 329 myrmecochory, 253

New Zealand, 171 nucellus, 53 nuclei, 197

organogenesis, 379 ovule, 53

PEG, 49 perception/transduction signal pathway, 43 pH, 349 phalloidin, 43 phenolic substances, 329 phenotypic plasticity, 217 plant defence, 275 plant geography, 369 plant growth, 329 Pleonosporium, 93 polycarpy, 217 population, 263 potato, 163

Raphanus sativus, 19 receptive embryo sac, 53 recombinant inbreds, 229 regenerated plants, 163 regeneration, 129 reproductive allocation, 183 Rhodophyta, 93 root hairs, 19

Salicornia, 263 sand burial, 171 saprotrophs, 329 Scrophularia nodosa, 183 secretion, 53, 389 Sedum ursi, 203 seed germination, 329 seeds, 253 Senecio jacobaea, 275 soft-water macrophyte species, 369 soil fertility, 183 somaclonal variation, 129, 145, 153, 163 somatic embryogenesis, 153, 379 South Africa, 93 synergid, 53

taxonomy, 93, 263 tetraploid, 263 tissue conductance, 359 tissue culture, 129 tobacco explants, 49 tomato, 297

ultrastructure, 389

variants, 153 vegetative anatomy, 285 vegetation structure, 75

wall texture, 19

xylem transport, 297

Zea mays L., 65

